## Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

## Listing of Claims:

Please amend claims 9, 25 and 27 as follows:

- (Previously Presented) An electrical current carrying 1. conductor for long distance transmission of electrical current, said current carrying conductor comprising:
  - a relatively solid high tensile strength central load a) carrying core formed from a plurality of generally arranged component core members which abut together and which are each generally polygonally shaped in cross-section and when abutted together define a generally solid cylindrically shaped core each core member formed from a fiber reinforced composite material, said core being of sufficient sectional size to support the tensile loading on the conductor when the conductor is suspended between support towers, wherein said conductor is capable of being wound around a drum; and
  - an outer highly conductive electrical current carrying b) sheath completely surrounding said load carrying core for carrying electrical current over said distance, wherein the plurality of component core members allow for the winding of the conductor around the drum.

- electrical current (Previously Presented) The 2. carrying conductor of Claim 1 further characterized in that said outer sheath is comprised of aluminum which is not alloyed to provide load carrying capacity.
- carrying The electrical current (Original) 3. further characterized in that said conductor of Claim 1 reinforced composite material is comprised of a plurality of aligned reinforcing fibers embedded in a thermoplastic composite matrix.
- electrical current (Previously Presented) The 4. carrying conductor of Claim 1 further characterized in that said core members are capable of being separated from one another for purposes of splicing.

## (Canceled) 5.

- (Previously Presented) The electrical carrying conductor of Claim 1 further characterized in that said, core members are generally triangular in cross-section.
- (Previously Presented) A method of producing a long 7. distance transmission current carrying conductor, said method comprising:
  - individual reinforced plurality of bringing a a) sections together in abutting composite core

> relationship to form a generally cylindrically shaped solid core, each core section having a generally polygonally shaped cross-section, wherein said core is of sufficient cross-sectional size to support the tensile loading on the conductor when the conductor is suspended between support towers;

- locating on an outer cylindrically shaped surface of bì an outer highly conductive electrical said core current carrying conductor and winding the conductor around a drum.
- The method for producing a (Previously Presented) long distance transmission current carrying conductor of Claim  $7^\circ$ further characterized in that said locating the current carrying conductor comprises winding individual wires of conductive current carrying conductor about the central core.
- (Currently Amended) The method for producing a long 9. distance transmission current carrying conductor of Claim 8 further characterized in that said method comprises helically winding said wires about said [central] core.
- The method for producing a (Previously Presented) 10. long distance transmission current carrying conductor of Claim 7 further characterized in that said outer surface is comprised of aluminum wires.

- The method for producing a (Previously Presented) 11. long distance transmission current carrying cable of Claim 7 further characterized in that said reinforced plastic composite each comprised of a plurality of are reinforcing fibers embedded in a thermoplastic composite matrix.
- 12. (Previously Presented) The method for producing a long distance transmission current carrying conductor of Claim 7 further characterized in that said method comprises the bringing of the composite sections together about a fiber optic cable so that the current carrying conductor also includes a fiber optic cable extending through said core.
  - 13. (Canceled)
  - 14. (Canceled)
  - 15. (Canceled)
  - 16. (Canceled)
  - 17. (Canceled)
  - 18. (Canceled)
- 19. (Previously Presented) An electrical carrying conductor for long distance transmission of electrical current, said current carrying conductor comprising:

- a) a relatively solid high strength central load carrying core formed from a plurality of generally arranged component core members which abut together and which are each generally polygonally shaped in cross-section such that when abutted form a generally solid cylindrically shaped core, each member being formed of a fiber reinforced composite material said core being of sufficient cross-sectional size to support the tensile loading on the conductor when the conductor is suspended between support towers, and wherein the conductor is capable of being wound around a drum;
- b) an outer highly conductive electrical current carrying sheath completely surrounding said load carrying core for carrying electrical current over said distance;
- c) a central bore extending axially through said core; and
- d) a fiber optic cable extending through the central bore allowing the conductor to carry electrical current and fiber optic cable signals with the same conductor, wherein the abutting component core members and the fiber optic cable define a cylindrical solid core.
- 20. (Previously Presented) The electrical current carrying conductor of Claim 19 further characterized in that said outer sheath is comprised of aluminum which is not alloyed to provide load carrying capacity.

- 21. (Previously Presented) The electrical current carrying further characterized in that conductor of Claim 20 reinforced composite material is comprised of a plurality of aligned reinforcing fibers embedded in a thermoplastic composite matrix.
- 22. (Previously Presented) The electrical current carrying conductor of Claim 19 further characterized in that said core members are capable of being separated from one another for purposes of splicing.
  - 23. (Canceled)
  - 24. (Canceled)
- 25. (Currently Amended) The electrical current carrying conductor for long distance transmission of electrical current of Claim [[2]] 1 further characterized in that said electrical current carrying sheath is formed of a non-alloyed aluminum.

## 26. (Canceled)

27. (Currently Amended) The electrical current carrying conductor for long distance transmission of electrical current of Claim [[20]] 19 further characterized in that said electrical current carrying sheath is formed of a non-alloyed aluminum.

- 28. (Canceled)
- 29. (Canceled)
- 30. (Canceled)
- 31. (Previously Presented) The electrical current carrying conductor of Claim 19, wherein the plurality of component core members allow for the winding of the conductor around the drum.